

$\psi(3770)$

$I^G(J^{PC}) = 0^-(1^{--})$

$\psi(3770)$ MASS (MeV)

OUR FIT includes measurements of $m_{\psi(2S)}$, $m_{\psi(3770)}$, and $m_{\psi(3770)} - m_{\psi(2S)}$.

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3773.7 ± 0.4 OUR FIT	Error includes scale factor of 1.4.			
3778.1 ± 0.7 OUR AVERAGE				
3778.1 $\pm 0.7 \pm 0.6$	1	AAIJ	19M LHCb $p p \rightarrow D \bar{D} +$ anything	
3779.2 $\pm 1.8 \pm 0.6$ -1.7 -0.8	2	ANASHIN	12A KEDR $e^+ e^- \rightarrow D \bar{D}$	
3775.5 $\pm 2.4 \pm 0.5$	57	AUBERT	08B BABR $B \rightarrow D \bar{D} K$	
3776 $\pm 5 \pm 4$	68	BRODZICKA	08 BELL $B^+ \rightarrow D^0 \bar{D}^0 K^+$	
3778.8 $\pm 1.9 \pm 0.9$		AUBERT	07BE BABR $e^+ e^- \rightarrow D \bar{D} \gamma$	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
3779.8 ± 0.6	3	SHAMOV	17 RVUE $e^+ e^- \rightarrow D \bar{D}$, hadrons	
3772.0 ± 1.9	4,5	ABLIKIM	08D BES2 $e^+ e^- \rightarrow$ hadrons	
3778.4 $\pm 3.0 \pm 1.3$	34	CHISTOV	04 BELL Sup. by BRODZICKA 08	

¹ Measured in prompt hadroproduction.

² Taking into account interference between the resonant and non-resonant $D \bar{D}$ production.

³ From the joint analysis of the data on the $D \bar{D}$ and inclusive hadronic cross sections in the $\psi(3770)$ region from BaBar, Belle, BES-II, CLEO and KEDR.

⁴ Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = 0^\circ$.

⁵ Interference between the resonant and non-resonant $D \bar{D}$ production not taken into account.

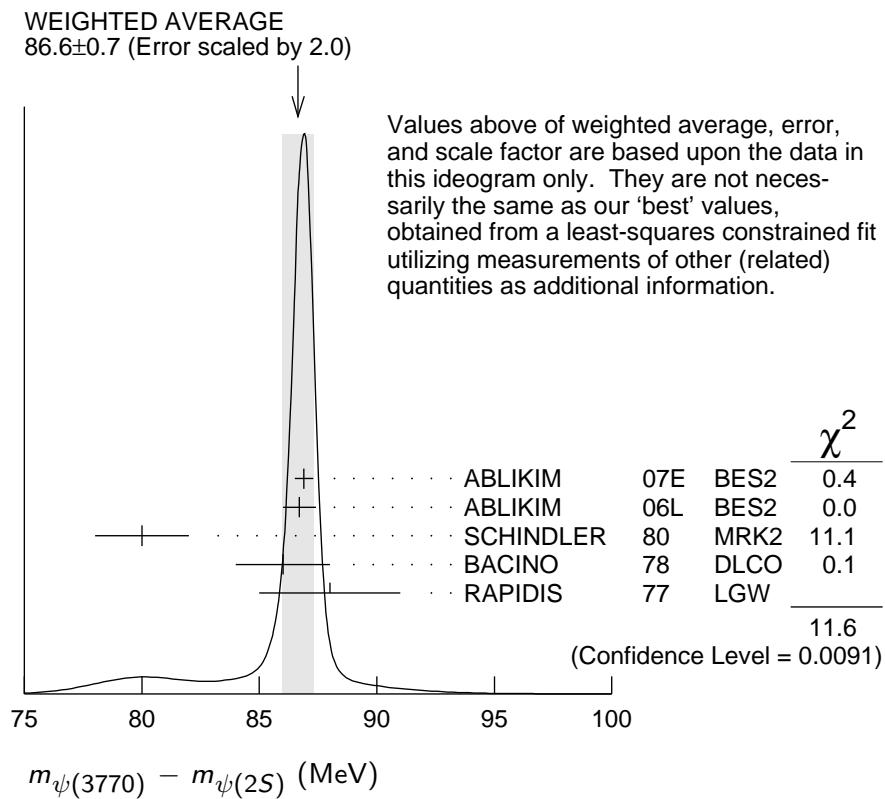
$m_{\psi(3770)} - m_{\psi(2S)}$

OUR FIT includes measurements of $m_{\psi(2S)}$, $m_{\psi(3770)}$, and $m_{\psi(3770)} - m_{\psi(2S)}$.

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
87.6 ± 0.4 OUR FIT	Error includes scale factor of 1.4.		
86.6 ± 0.7 OUR AVERAGE	Error includes scale factor of 2.0. See the ideogram below.		
86.9 ± 0.4	1 ABLIKIM	07E BES2 $e^+ e^- \rightarrow$ hadrons	
86.7 ± 0.7	ABLIKIM	06L BES2 $e^+ e^- \rightarrow$ hadrons	
80 ± 2	SCHINDLER	80 MRK2 $e^+ e^-$	
86 ± 2	2 BACINO	78 DLCO $e^+ e^-$	
88 ± 3	RAPIDIS	77 LGW $e^+ e^-$	

¹ BES-II $\psi(2S)$ mass subtracted (see ABLIKIM 06L).

² SPEAR $\psi(2S)$ mass subtracted (see SCHINDLER 80).



$\psi(3770)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
27.2\pm 1.0 OUR FIT				
27.5\pm 0.9 OUR AVERAGE				
24.9 $^{+}$ 4.6 \pm 0.5		1 ANASHIN	12A KEDR	$e^+ e^- \rightarrow D\bar{D}$
24.9 $^{-}$ 4.0 $-$ 1.1				
30.4 \pm 8.5		2,3 ABLIKIM	08D BES2	$e^+ e^- \rightarrow$ hadrons
27 \pm 10 \pm 5	68	BRODZICKA	08 BELL	$B^+ \rightarrow D^0 \bar{D}^0 K^+$
28.5 \pm 1.2 \pm 0.2		3 ABLIKIM	07E BES2	$e^+ e^- \rightarrow$ hadrons
23.5 \pm 3.7 \pm 0.9		AUBERT	07BE BABR	$e^+ e^- \rightarrow D\bar{D}\gamma$
26.9 \pm 2.4 \pm 0.3		3 ABLIKIM	06L BES2	$e^+ e^- \rightarrow$ hadrons
24 \pm 5		3 SCHINDLER	80 MRK2	$e^+ e^-$
24 \pm 5		3 BACINO	78 DLCO	$e^+ e^-$
28 \pm 5		3 RAPIDIS	77 LGW	$e^+ e^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
25.8 \pm 1.3		4 SHAMOV	17 RVUE	$e^+ e^- \rightarrow D\bar{D}$, hadrons

¹ Taking into account interference between the resonant and non-resonant $D\bar{D}$ production.

² Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = 0^\circ$.

³ Interference between the resonant and non-resonant $D\bar{D}$ production not taken into account.

⁴ From the joint analysis of the data on the $D\bar{D}$ and inclusive hadronic cross sections in the $\psi(3770)$ region from BaBar, Belle, BES-II, CLEO and KEDR.

$\psi(3770)$ DECAY MODES

In addition to the dominant decay mode to $D\bar{D}$, $\psi(3770)$ was found to decay into the final states containing the J/ψ (BAI 05, ADAM 06). ADAMS 06 and HUANG 06A searched for various decay modes with light hadrons and found a statistically significant signal for the decay to $\phi\eta$ only (ADAMS 06).

Mode	Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1 $D\bar{D}$	(93 ± 8) %	S=2.0
Γ_2 $D^0\bar{D}^0$	(52 ± 4) %	S=2.0
Γ_3 D^+D^-	(41 ± 4) %	S=2.0
Γ_4 $J/\psi\pi^+\pi^-$	$(1.93 \pm 0.28) \times 10^{-3}$	
Γ_5 $J/\psi\pi^0\pi^0$	$(8.0 \pm 3.0) \times 10^{-4}$	
Γ_6 $J/\psi\eta$	$(9 \pm 4) \times 10^{-4}$	
Γ_7 $J/\psi\pi^0$	$< 2.8 \times 10^{-4}$	CL=90%
Γ_8 e^+e^-	$(9.6 \pm 0.7) \times 10^{-6}$	S=1.3

Decays to light hadrons

Γ_9	$b_1(1235)\pi$	$< 1.4 \times 10^{-5}$	CL=90%
Γ_{10}	$\phi\eta'$	$< 7 \times 10^{-4}$	CL=90%
Γ_{11}	$\omega\eta'$	$< 4 \times 10^{-4}$	CL=90%
Γ_{12}	$\rho^0\eta'$	$< 6 \times 10^{-4}$	CL=90%
Γ_{13}	$\phi\eta$	$(3.1 \pm 0.7) \times 10^{-4}$	
Γ_{14}	$\omega\eta$	$< 1.4 \times 10^{-5}$	CL=90%
Γ_{15}	$\rho^0\eta$	$< 5 \times 10^{-4}$	CL=90%
Γ_{16}	$\phi\pi^0$	$< 3 \times 10^{-5}$	CL=90%
Γ_{17}	$\omega\pi^0$	$< 6 \times 10^{-4}$	CL=90%
Γ_{18}	$\pi^+\pi^-\pi^0$	$< 5 \times 10^{-6}$	CL=90%
Γ_{19}	$\rho\pi$	$< 5 \times 10^{-6}$	CL=90%
Γ_{20}	K^+K^-		
Γ_{21}	$K^*(892)^+K^- + \text{c.c.}$	$< 1.4 \times 10^{-5}$	CL=90%
Γ_{22}	$K^*(892)^0\bar{K}^0 + \text{c.c.}$	$< 1.2 \times 10^{-3}$	CL=90%
Γ_{23}	$K_S^0 K_L^0$	$< 1.2 \times 10^{-5}$	CL=90%
Γ_{24}	$2(\pi^+\pi^-)$	$< 1.12 \times 10^{-3}$	CL=90%
Γ_{25}	$2(\pi^+\pi^-)\pi^0$	$< 1.06 \times 10^{-3}$	CL=90%
Γ_{26}	$2(\pi^+\pi^-\pi^0)$	$< 5.85 \%$	CL=90%
Γ_{27}	$\omega\pi^+\pi^-$	$< 6.0 \times 10^{-4}$	CL=90%
Γ_{28}	$3(\pi^+\pi^-)$	$< 9.1 \times 10^{-3}$	CL=90%
Γ_{29}	$3(\pi^+\pi^-)\pi^0$	$< 1.37 \%$	CL=90%
Γ_{30}	$3(\pi^+\pi^-)2\pi^0$	$< 11.74 \%$	CL=90%
Γ_{31}	$\eta\pi^+\pi^-$	$< 1.24 \times 10^{-3}$	CL=90%
Γ_{32}	$\pi^+\pi^-2\pi^0$	$< 8.9 \times 10^{-3}$	CL=90%
Γ_{33}	$\rho^0\pi^+\pi^-$	$< 6.9 \times 10^{-3}$	CL=90%

Γ_{34}	$\eta 3\pi$	< 1.34	$\times 10^{-3}$	CL=90%
Γ_{35}	$\eta 2(\pi^+ \pi^-)$	< 2.43	%	CL=90%
Γ_{36}	$\eta \rho^0 \pi^+ \pi^-$	< 1.45	%	CL=90%
Γ_{37}	$\eta' 3\pi$	< 2.44	$\times 10^{-3}$	CL=90%
Γ_{38}	$K^+ K^- \pi^+ \pi^-$	< 9.0	$\times 10^{-4}$	CL=90%
Γ_{39}	$\phi \pi^+ \pi^-$	< 4.1	$\times 10^{-4}$	CL=90%
Γ_{40}	$K^+ K^- 2\pi^0$	< 4.2	$\times 10^{-3}$	CL=90%
Γ_{41}	$4(\pi^+ \pi^-)$	< 1.67	%	CL=90%
Γ_{42}	$4(\pi^+ \pi^-) \pi^0$	< 3.06	%	CL=90%
Γ_{43}	$\phi f_0(980)$	< 4.5	$\times 10^{-4}$	CL=90%
Γ_{44}	$K^+ K^- \pi^+ \pi^- \pi^0$	< 2.36	$\times 10^{-3}$	CL=90%
Γ_{45}	$K^+ K^- \rho^0 \pi^0$	< 8	$\times 10^{-4}$	CL=90%
Γ_{46}	$K^+ K^- \rho^+ \pi^-$	< 1.46	%	CL=90%
Γ_{47}	$\omega K^+ K^-$	< 3.4	$\times 10^{-4}$	CL=90%
Γ_{48}	$\phi \pi^+ \pi^- \pi^0$	< 3.8	$\times 10^{-3}$	CL=90%
Γ_{49}	$K^{*0} K^- \pi^+ \pi^0 + \text{c.c.}$	< 1.62	%	CL=90%
Γ_{50}	$K^{*+} K^- \pi^+ \pi^- + \text{c.c.}$	< 3.23	%	CL=90%
Γ_{51}	$K^+ K^- \pi^+ \pi^- 2\pi^0$	< 2.67	%	CL=90%
Γ_{52}	$K^+ K^- 2(\pi^+ \pi^-)$	< 1.03	%	CL=90%
Γ_{53}	$K^+ K^- 2(\pi^+ \pi^-) \pi^0$	< 3.60	%	CL=90%
Γ_{54}	$\eta K^+ K^-$	< 4.1	$\times 10^{-4}$	CL=90%
Γ_{55}	$\eta K^+ K^- \pi^+ \pi^-$	< 1.24	%	CL=90%
Γ_{56}	$\rho^0 K^+ K^-$	< 5.0	$\times 10^{-3}$	CL=90%
Γ_{57}	$2(K^+ K^-)$	< 6.0	$\times 10^{-4}$	CL=90%
Γ_{58}	$\phi K^+ K^-$	< 7.5	$\times 10^{-4}$	CL=90%
Γ_{59}	$2(K^+ K^-) \pi^0$	< 2.9	$\times 10^{-4}$	CL=90%
Γ_{60}	$2(K^+ K^-) \pi^+ \pi^-$	< 3.2	$\times 10^{-3}$	CL=90%
Γ_{61}	$K_S^0 K^- \pi^+$	< 3.2	$\times 10^{-3}$	CL=90%
Γ_{62}	$K_S^0 K^- \pi^+ \pi^0$	< 1.33	%	CL=90%
Γ_{63}	$K_S^0 K^- \rho^+$	< 6.6	$\times 10^{-3}$	CL=90%
Γ_{64}	$K_S^0 K^- 2\pi^+ \pi^-$	< 8.7	$\times 10^{-3}$	CL=90%
Γ_{65}	$K_S^0 K^- \pi^+ \rho^0$	< 1.6	%	CL=90%
Γ_{66}	$K_S^0 K^- \pi^+ \eta$	< 1.3	%	CL=90%
Γ_{67}	$K_S^0 K^- 2\pi^+ \pi^- \pi^0$	< 4.18	%	CL=90%
Γ_{68}	$K_S^0 K^- 2\pi^+ \pi^- \eta$	< 4.8	%	CL=90%
Γ_{69}	$K_S^0 K^- \pi^+ 2(\pi^+ \pi^-)$	< 1.22	%	CL=90%
Γ_{70}	$K_S^0 K^- \pi^+ 2\pi^0$	< 2.65	%	CL=90%
Γ_{71}	$K_S^0 K^- K^+ K^- \pi^+$	< 4.9	$\times 10^{-3}$	CL=90%
Γ_{72}	$K_S^0 K^- K^+ K^- \pi^+ \pi^0$	< 3.0	%	CL=90%
Γ_{73}	$K_S^0 K^- K^+ K^- \pi^+ \eta$	< 2.2	%	CL=90%
Γ_{74}	$K^{*0} K^- \pi^+ + \text{c.c.}$	< 9.7	$\times 10^{-3}$	CL=90%
Γ_{75}	$p\bar{p}$			
Γ_{76}	$p\bar{p}\pi^0$	< 4	$\times 10^{-5}$	CL=90%

Γ_{77}	$p\bar{p}\pi^+\pi^-$	< 5.8	$\times 10^{-4}$	CL=90%
Γ_{78}	$\Lambda\bar{\Lambda}$	< 1.2	$\times 10^{-4}$	CL=90%
Γ_{79}	$p\bar{p}\pi^+\pi^-\pi^0$	< 1.85	$\times 10^{-3}$	CL=90%
Γ_{80}	$\omega p\bar{p}$	< 2.9	$\times 10^{-4}$	CL=90%
Γ_{81}	$\Lambda\bar{\Lambda}\pi^0$	< 7	$\times 10^{-5}$	CL=90%
Γ_{82}	$p\bar{p}2(\pi^+\pi^-)$	< 2.6	$\times 10^{-3}$	CL=90%
Γ_{83}	$\eta p\bar{p}$	< 5.4	$\times 10^{-4}$	CL=90%
Γ_{84}	$\eta p\bar{p}\pi^+\pi^-$	< 3.3	$\times 10^{-3}$	CL=90%
Γ_{85}	$\rho^0 p\bar{p}$	< 1.7	$\times 10^{-3}$	CL=90%
Γ_{86}	$p\bar{p}K^+K^-$	< 3.2	$\times 10^{-4}$	CL=90%
Γ_{87}	$\eta p\bar{p}K^+K^-$	< 6.9	$\times 10^{-3}$	CL=90%
Γ_{88}	$\pi^0 p\bar{p}K^+K^-$	< 1.2	$\times 10^{-3}$	CL=90%
Γ_{89}	$\phi p\bar{p}$	< 1.3	$\times 10^{-4}$	CL=90%
Γ_{90}	$\Lambda\bar{\Lambda}\pi^+\pi^-$	< 2.5	$\times 10^{-4}$	CL=90%
Γ_{91}	$\Lambda\bar{p}K^+$	< 2.8	$\times 10^{-4}$	CL=90%
Γ_{92}	$\Lambda\bar{p}K^+\pi^+\pi^-$	< 6.3	$\times 10^{-4}$	CL=90%
Γ_{93}	$\Lambda\bar{\Lambda}\eta$	< 1.9	$\times 10^{-4}$	CL=90%
Γ_{94}	$\Sigma^+\bar{\Sigma}^-$	< 1.0	$\times 10^{-4}$	CL=90%
Γ_{95}	$\Sigma^0\bar{\Sigma}^0$	< 4	$\times 10^{-5}$	CL=90%
Γ_{96}	$\Xi^+\bar{\Xi}^-$	< 1.5	$\times 10^{-4}$	CL=90%
Γ_{97}	$\Xi^0\bar{\Xi}^0$	< 1.4	$\times 10^{-4}$	CL=90%

Radiative decays

Γ_{98}	$\gamma\chi_{c2}$	< 6.4	$\times 10^{-4}$	CL=90%
Γ_{99}	$\gamma\chi_{c1}$	(2.49 \pm 0.23)	$\times 10^{-3}$	
Γ_{100}	$\gamma\chi_{c0}$	(6.9 \pm 0.6)	$\times 10^{-3}$	
Γ_{101}	$\gamma\eta_c$	< 7	$\times 10^{-4}$	CL=90%
Γ_{102}	$\gamma\eta_c(2S)$	< 9	$\times 10^{-4}$	CL=90%
Γ_{103}	$\gamma\eta'$	< 1.8	$\times 10^{-4}$	CL=90%
Γ_{104}	$\gamma\eta$	< 1.5	$\times 10^{-4}$	CL=90%
Γ_{105}	$\gamma\pi^0$	< 2	$\times 10^{-4}$	CL=90%

CONSTRAINED FIT INFORMATION

An overall fit to the total width, a partial width, and 3 branching ratios uses 23 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 20.1$ for 19 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

x_3	99		
x_8	0	0	
Γ	0	0	-44

x_2 x_3 x_8

Mode	Rate (MeV)	Scale factor
$\Gamma_2 D^0 \bar{D}^0$	14.0 ± 1.4	1.8
$\Gamma_3 D^+ D^-$	11.2 ± 1.1	1.7
$\Gamma_8 e^+ e^-$	$(2.62 \pm 0.18) \times 10^{-4}$	1.4

$\psi(3770)$ PARTIAL WIDTHS

$\Gamma(e^+ e^-)$	Γ_8
<i>VALUE (keV)</i>	<i>EVTS</i>
0.262 ± 0.018 OUR FIT	Error includes scale factor of 1.4.
0.256 ± 0.016 OUR AVERAGE	Error includes scale factor of 1.2.
$0.154^{+0.079}_{-0.058} {}^{+0.021}_{-0.027}$	^{1,2} ANASHIN 12A KEDR $e^+ e^- \rightarrow D\bar{D}$
0.22 ± 0.05	^{3,4} ABLIKIM 08D BES2 $e^+ e^- \rightarrow$ hadrons
$0.277 \pm 0.011 \pm 0.013$	⁴ ABLIKIM 07E BES2 $e^+ e^- \rightarrow$ hadrons
$0.203 \pm 0.003^{+0.041}_{-0.027}$	^{1.4M} BESSON 06 CLEO $e^+ e^- \rightarrow$ hadrons
0.276 ± 0.050	⁴ SCHINDLER 80 MRK2 $e^+ e^-$
0.18 ± 0.06	⁴ BACINO 78 DLCO $e^+ e^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •	
0.196 ± 0.018	⁶ SHAMOV 17 RVUE $e^+ e^- \rightarrow D\bar{D}$, hadrons
$0.414^{+0.072}_{-0.080} {}^{+0.093}_{-0.028}$	^{2,7} ANASHIN 12A KEDR $e^+ e^- \rightarrow D\bar{D}$
0.37 ± 0.09	⁸ RAPIDIS 77 LGW $e^+ e^-$

¹ Solution I of the two solutions.

² Taking into account interference between the resonant and non-resonant $D\bar{D}$ production.

³ Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = 0^\circ$.

⁴ Interference between the resonant and non-resonant $D\bar{D}$ production not taken into account.

- ⁵ BESSON 06 (as corrected in BESSON 10) measure $\sigma(e^+ e^- \rightarrow \psi(3770) \rightarrow \text{hadrons}) = 6.36 \pm 0.08^{+0.41}_{-0.30} \text{ nb}$ at $\sqrt{s} = 3773 \pm 1 \text{ MeV}$, and obtain Γ_{ee} from the Born-level cross section calculated using $\psi(3770)$ mass and width from our 2004 edition, PDG 04.
- ⁶ From the joint analysis of the data on the $D\bar{D}$ and inclusive hadronic cross sections in the $\psi(3770)$ region from BaBar, Belle, BES-II, CLEO and KEDR.
- ⁷ Solution II of the two solutions.
- ⁸ See also $\Gamma(e^+ e^-)/\Gamma_{\text{total}}$ below.

$\psi(3770)$ BRANCHING RATIOS

$\Gamma(D\bar{D})/\Gamma_{\text{total}}$				$\Gamma_1/\Gamma = (\Gamma_2 + \Gamma_3)/\Gamma$
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
0.93 $^{+0.08}_{-0.09}$ OUR FIT		Error includes scale factor of 2.0.		
0.93 $^{+0.08}_{-0.09}$ OUR AVERAGE		Error includes scale factor of 2.1.		
0.849 $\pm 0.056 \pm 0.018$	1 ABLIKIM	08B BES2	$e^+ e^- \rightarrow \text{non-}D\bar{D}$	
1.033 $\pm 0.014^{+0.048}_{-0.066}$	1.427M BESSON	06 CLEO	$e^+ e^- \rightarrow \text{hadrons}$	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.836 ± 0.049	3 SHAMOV	17 RVUE	$e^+ e^- \rightarrow D\bar{D}$, hadrons	
0.866 $\pm 0.050 \pm 0.036$	4,5 ABLIKIM	07K BES2	$e^+ e^- \rightarrow \text{non-}D\bar{D}$	
0.836 $\pm 0.073 \pm 0.042$	5 ABLIKIM	06L BES2	$e^+ e^- \rightarrow D\bar{D}$	
0.855 $\pm 0.017 \pm 0.058$	5,6 ABLIKIM	06N BES2	$e^+ e^- \rightarrow D\bar{D}$	

¹ Neglecting interference.

² Obtained by comparing a measurement of the total cross section (corrected in BESSON 10) with that of $D\bar{D}$ reported by CLEO in DOBBS 07.

³ From the joint analysis of the data on the $D\bar{D}$ and inclusive hadronic cross sections in the $\psi(3770)$ region from BaBar, Belle, BES-II, CLEO and KEDR.

⁴ Using $\sigma^{obs} = 7.07 \pm 0.58 \text{ nb}$ and neglecting interference.

⁵ Not independent of ABLIKIM 08B.

⁶ From a measurement of $\sigma(e^+ e^- \rightarrow D\bar{D})$ at $\sqrt{s} = 3773 \text{ MeV}$, using the $\psi(3770)$ resonance parameters measured by ABLIKIM 06L.

$\Gamma(D^0\bar{D}^0)/\Gamma_{\text{total}}$				Γ_2/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
0.52 $^{+0.04}_{-0.05}$ OUR FIT		Error includes scale factor of 2.0.		
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.467 $\pm 0.047 \pm 0.023$	ABLIKIM	06L BES2	$e^+ e^- \rightarrow D^0\bar{D}^0$	
0.499 $\pm 0.013 \pm 0.038$	1 ABLIKIM	06N BES2	$e^+ e^- \rightarrow D^0\bar{D}^0$	

¹ From a measurement of $\sigma(e^+ e^- \rightarrow D\bar{D})$ at $\sqrt{s} = 3773 \text{ MeV}$, using the $\psi(3770)$ resonance parameters measured by ABLIKIM 06L.

$\Gamma(D^+\bar{D}^-)/\Gamma_{\text{total}}$				Γ_3/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
0.41 ± 0.04 OUR FIT		Error includes scale factor of 2.0.		
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.369 $\pm 0.037 \pm 0.028$	ABLIKIM	06L BES2	$e^+ e^- \rightarrow D^+\bar{D}^-$	
0.357 $\pm 0.011 \pm 0.034$	1 ABLIKIM	06N BES2	$e^+ e^- \rightarrow D^+\bar{D}^-$	

¹ From a measurement of $\sigma(e^+ e^- \rightarrow D\bar{D})$ at $\sqrt{s} = 3773 \text{ MeV}$, using the $\psi(3770)$ resonance parameters measured by ABLIKIM 06L.

$\Gamma(D^0\bar{D}^0)/\Gamma(D^+D^-)$

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_2/Γ_3
1.253 ± 0.016 OUR FIT					
1.253 ± 0.016 OUR AVERAGE					
$1.252 \pm 0.009 \pm 0.013$	5.3M	BONVICINI	14	CLEO $e^+e^- \rightarrow D\bar{D}$	
$1.39 \pm 0.31 \pm 0.12$		PAKHLOVA	08	BELL $10.6 e^+e^- \rightarrow D\bar{D}\gamma$	
$1.78 \pm 0.33 \pm 0.24$		AUBERT	07BE	BABR $e^+e^- \rightarrow D\bar{D}\gamma$	
$1.27 \pm 0.12 \pm 0.08$		ABLIKIM	06L	BES2 $e^+e^- \rightarrow D\bar{D}$	
$2.43 \pm 1.50 \pm 0.43$	34	¹ CHISTOV	04	BELL $B^+ \rightarrow \psi(3770)K^+$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$1.258 \pm 0.016 \pm 0.014$		² DOBBS	07	CLEO $e^+e^- \rightarrow D\bar{D}$	

¹ See ADLER 88C for older measurements of this quantity.² Superseded by BONVICINI 14. $\Gamma(J/\psi\pi^+\pi^-)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-3})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_4/Γ
1.93 ± 0.28 OUR AVERAGE					
$1.89 \pm 0.20 \pm 0.20$	231 ± 33	ADAM	06	CLEO $e^+e^- \rightarrow \psi(3770)$	
$3.4 \pm 1.4 \pm 0.9$	17.8 ± 4.8	BAI	05	BES2 $e^+e^- \rightarrow \psi(3770)$	

 $\Gamma(J/\psi\pi^0\pi^0)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-2})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_5/Γ
$0.080 \pm 0.025 \pm 0.016$	39 ± 14	ADAM	06	CLEO $e^+e^- \rightarrow \psi(3770)$	

 $\Gamma(J/\psi\eta)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-5})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_6/Γ
$87 \pm 33 \pm 22$	22 ± 10	ADAM	06	CLEO $e^+e^- \rightarrow \psi(3770)$	

 $\Gamma(J/\psi\pi^0)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-5})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_7/Γ
<28	90	<10	ADAM	06	CLEO $e^+e^- \rightarrow \psi(3770)$	

 $\Gamma(e^+e^-)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-5})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_8/Γ
0.96 ± 0.07 OUR FIT	Error includes scale factor of 1.3.			
1.3 ± 0.2	RAPIDIS	77	LGW e^+e^-	

— DECAYS TO LIGHT HADRONS — $\Gamma(b_1(1235)\pi)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-5})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_9/Γ
<1.4	90	¹ ADAMS	06	CLEO $e^+e^- \rightarrow \psi(3770)$	

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

$\Gamma(\phi\eta')/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<7	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

 $\Gamma(\omega\eta')/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<4	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

 $\Gamma(\rho^0\eta')/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<6	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

 $\Gamma(\phi\eta)/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
3.1±0.6±0.3	90	¹ ADAMS 06	CLEO	$3.773 e^+ e^- \rightarrow \phi\eta$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<19	90	² ABLIKIM 07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\omega\eta)/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-5})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.4	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

 $\Gamma(\rho^0\eta)/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<5	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

 $\Gamma(\phi\pi^0)/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-5})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 3	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<50	90	² ABLIKIM 07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 Γ_{10}/Γ Γ_{11}/Γ Γ_{13}/Γ Γ_{15}/Γ Γ_{16}/Γ

$\Gamma(\omega\pi^0)/\Gamma_{\text{total}}$	Γ_{17}/Γ			
VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
<6	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

$\Gamma(\pi^+ \pi^- \pi^0) / \Gamma_{\text{total}}$	Γ_{18} / Γ			
VALUE (units 10^{-6})	CL %	DOCUMENT ID	TECN	COMMENT
<5	90	1, ² ADAMS	06	$e^+ e^- \rightarrow \psi(3770)$

¹ Data suggest possible destructive interference with continuum.

Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

$\Gamma(\rho\pi)/\Gamma_{\text{total}}$	$CL\%$	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	Γ_{19}/Γ
<5	90	1, ² ADAMS	06	CLEO	$e^+e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

²Data suggest possible destructive interference with continuum.

$\Gamma(K^+ K^-)/\Gamma_{\text{total}}$	Γ_{20}/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

$\approx 10^{-5}$ ¹D_RUZHININ 15 RVUE $e^+ e^- \rightarrow \psi(3770)$

¹ DRUZHININ 15 uses BABAR and CLEO data taking into account interference of the processes $e^+ e^- \rightarrow K^+ K^-$ and $e^+ e^- \rightarrow K_S^0 K_L^0$.

$\Gamma(K^*(892)^+ K^- + \text{c.c.})/\Gamma_{\text{total}}$	Γ_{21}/Γ			
VALUE (units 10^{-5})	CL%	DOCUMENT ID	TECN	COMMENT
<1.4	90	¹ ADAMS 06	CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

$\Gamma(K^*(892)^0 \bar{K}^0 + \text{c.c.})/\Gamma_{\text{total}}$	Γ_{22}/Γ			
VALUE (units 10^{-3})	CL%	DOCUMENT ID	TECN	COMMENT
≤1.2	90	¹ ADAMS 06	CLEO	$e^+e^- \rightarrow \psi(3770)$

¹ Comparing cross sections at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, neglecting interference, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 + 0.20$ nb.

$\Gamma(K_S^0 K_L^0)/\Gamma_{\text{total}}$	$CL\%$	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	Γ_{23}/Γ
< 1.2	90	¹ CRONIN, HEN-06	CLEO	$e^+ e^- \rightarrow \gamma/\gamma(3770)$	

• • • We do not use the following data for averages, fits, limits, etc. • • •

$\psi(3770)$

¹ Using $\sigma(e^+ e^- \rightarrow \psi(3770) \rightarrow \text{hadrons}) = (6.38 \pm 0.08^{+0.41}_{-0.30}) \text{ nb}$ from BESSON 00

and $B(K^0_S \rightarrow \pi^+ \pi^-) = 0.6895 \pm 0.0014$.

² Using $B(K_\xi^0 \rightarrow \pi^+ \pi^-) = 0.6860 \pm 0.0027$.

$\Gamma(2(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{24}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<11.2	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<48	90	2 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(2(\pi^+\pi^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{25}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<10.6	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<62	90	2 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(2(\pi^+\pi^-\pi^0))/\Gamma_{\text{total}}$ Γ_{26}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<58.5	90	305	ABLIKIM	08N BES2	$e^+e^- \rightarrow \psi(3770)$

 $\Gamma(\omega\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{27}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 6.0	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<55	90	2 ABLIKIM	07I BES2	$3.77 e^+e^-$
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¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(3(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{28}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<91	90	1 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(3(\pi^+\pi^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{29}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<137	90	1 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(3(\pi^+\pi^-)2\pi^0)/\Gamma_{\text{total}}$ Γ_{30}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<117.4	90	59	ABLIKIM	08N BES2	$e^+e^- \rightarrow \psi(3770)$

$\Gamma(\eta\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{31}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.24	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<2.3	90	2 ABLIKIM	10D BES2	$e^+e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\pi^+\pi^-2\pi^0)/\Gamma_{\text{total}}$ Γ_{32}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<8.9	90	218	ABLIKIM	08N BES2	$e^+e^- \rightarrow \psi(3770)$

 $\Gamma(\rho^0\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{33}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<6.9	90	1 ABLIKIM	07F BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\eta 3\pi)/\Gamma_{\text{total}}$ Γ_{34}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<13.4	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

 $\Gamma(\eta 2(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{35}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<243	90	1 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\eta\rho^0\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{36}/Γ

<u>VALUE (units 10^{-2})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.45	90	1 ABLIKIM	10D BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\eta' 3\pi)/\Gamma_{\text{total}}$ Γ_{37}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<24.4	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

$\Gamma(K^+ K^- \pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{38}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 9.0	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<48 90 2 ABLIKIM 07B BES2 $e^+ e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\phi \pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{39}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 4.1	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<16 90 2 ABLIKIM 07B BES2 $e^+ e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(K^+ K^- 2\pi^0)/\Gamma_{\text{total}}$ Γ_{40}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<4.2	90	14	ABLIKIM	08N BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(4(\pi^+ \pi^-))/\Gamma_{\text{total}}$ Γ_{41}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<16.7	90	1 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(4(\pi^+ \pi^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{42}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<30.6	90	1 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\phi f_0(980))/\Gamma_{\text{total}}$ Γ_{43}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<4.5	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

 $\Gamma(K^+ K^- \pi^+ \pi^- \pi^0)/\Gamma_{\text{total}}$ Γ_{44}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 23.6	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<111 90 2 ABLIKIM 07B BES2 $e^+ e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(K^+ K^- \rho^0 \pi^0)/\Gamma_{\text{total}}$				Γ_{45}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<8	90	¹ ABLIKIM	07I BES2	$3.77 e^+ e^-$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(K^+ K^- \rho^+ \pi^-)/\Gamma_{\text{total}}$				Γ_{46}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<146	90	¹ ABLIKIM	07I BES2	$3.77 e^+ e^-$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\omega K^+ K^-)/\Gamma_{\text{total}}$				Γ_{47}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 3.4	90	¹ HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<66	90	² ABLIKIM	07I BES2	$3.77 e^+ e^-$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\phi \pi^+ \pi^- \pi^0)/\Gamma_{\text{total}}$				Γ_{48}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<38	90	¹ ABLIKIM	07I BES2	$3.77 e^+ e^-$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(K^{*0} K^- \pi^+ \pi^0 + \text{c.c.})/\Gamma_{\text{total}}$				Γ_{49}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<162	90	¹ ABLIKIM	07I BES2	$3.77 e^+ e^-$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(K^{*+} K^- \pi^+ \pi^- + \text{c.c.})/\Gamma_{\text{total}}$				Γ_{50}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<323	90	¹ ABLIKIM	07I BES2	$3.77 e^+ e^-$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(K^+ K^- \pi^+ \pi^- 2\pi^0)/\Gamma_{\text{total}}$				Γ_{51}/Γ
<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
<26.7	90	24	ABLIKIM	08N BES2 $e^+ e^- \rightarrow \psi(3770)$

$\Gamma(K^+ K^- 2(\pi^+ \pi^-))/\Gamma_{\text{total}}$ Γ_{52}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<10.3	90	¹ ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(K^+ K^- 2(\pi^+ \pi^-) \pi^0)/\Gamma_{\text{total}}$ Γ_{53}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<36.0	90	¹ ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\eta K^+ K^-)/\Gamma_{\text{total}}$ Γ_{54}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 4.1	90	¹ HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<31	90	² ABLIKIM	10D BES2	$e^+ e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\eta K^+ K^- \pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{55}/Γ

<u>VALUE (units 10^{-2})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.24	90	¹ ABLIKIM	10D BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\rho^0 K^+ K^-)/\Gamma_{\text{total}}$ Γ_{56}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<5.0	90	¹ ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(2(K^+ K^-))/\Gamma_{\text{total}}$ Γ_{57}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 6.0	90	¹ HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<17	90	² ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\phi K^+ K^-)/\Gamma_{\text{total}}$ Γ_{58}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 7.5	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<24	90	2 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(2(K^+ K^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{59}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 2.9	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<46	90	2 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(2(K^+ K^-)\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{60}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<3.2	90	18	1 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(K_S^0 K^- \pi^+)/\Gamma_{\text{total}}$ Γ_{61}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<3.2	90	18	ABLIKIM	08M BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K_S^0 K^- \pi^+ \pi^0)/\Gamma_{\text{total}}$ Γ_{62}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<13.3	90	40	ABLIKIM	08M BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K_S^0 K^- \rho^+)/\Gamma_{\text{total}}$ Γ_{63}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<6.6	90		ABLIKIM	09C BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K_S^0 K^- 2\pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{64}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<8.7	90	39	ABLIKIM	08M BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K_S^0 K^- \pi^+ \rho^0)/\Gamma_{\text{total}}$ Γ_{65}/Γ

<u>VALUE (units 10^{-2})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.6	90		ABLIKIM	09C BES2	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(K_S^0 K^- \pi^+ \eta)/\Gamma_{\text{total}}$					Γ_{66}/Γ
$\text{VALUE (units } 10^{-2}\text{)}$	CL \%				
<1.3	90				
$\Gamma(K_S^0 K^- 2\pi^+ \pi^- \pi^0)/\Gamma_{\text{total}}$					Γ_{67}/Γ
$\text{VALUE (units } 10^{-3}\text{)}$	CL \%	EVTS			
<41.8	90	23			
$\Gamma(K_S^0 K^- 2\pi^+ \pi^- \eta)/\Gamma_{\text{total}}$					Γ_{68}/Γ
$\text{VALUE (units } 10^{-2}\text{)}$	CL \%				
<4.8	90				
$\Gamma(K_S^0 K^- \pi^+ 2(\pi^+ \pi^-))/\Gamma_{\text{total}}$					Γ_{69}/Γ
$\text{VALUE (units } 10^{-3}\text{)}$	CL \%	EVTS			
<12.2	90	4			
$\Gamma(K_S^0 K^- \pi^+ 2\pi^0)/\Gamma_{\text{total}}$					Γ_{70}/Γ
$\text{VALUE (units } 10^{-3}\text{)}$	CL \%	EVTS			
<26.5	90	17			
$\Gamma(K_S^0 K^- K^+ K^- \pi^+)/\Gamma_{\text{total}}$					Γ_{71}/Γ
$\text{VALUE (units } 10^{-3}\text{)}$	CL \%				
<4.9	90				
$\Gamma(K_S^0 K^- K^+ K^- \pi^+ \pi^0)/\Gamma_{\text{total}}$					Γ_{72}/Γ
$\text{VALUE (units } 10^{-2}\text{)}$	CL \%				
<3.0	90				
$\Gamma(K_S^0 K^- K^+ K^- \pi^+ \eta)/\Gamma_{\text{total}}$					Γ_{73}/Γ
$\text{VALUE (units } 10^{-2}\text{)}$	CL \%				
<2.2	90				
$\Gamma(K^{*0} K^- \pi^+ + \text{c.c.})/\Gamma_{\text{total}}$					Γ_{74}/Γ
$\text{VALUE (units } 10^{-3}\text{)}$	CL \%				
<9.7	90				

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

$\Gamma(p\bar{p})/\Gamma_{\text{total}}$					Γ_{75}/Γ
$\text{VALUE (units } 10^{-6}\text{)}$	EVTS	DOCUMENT ID	TECN	COMMENT	
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$					
not seen		¹ AAIJ	17AD LHCb	$p\bar{p} \rightarrow B^+ X \rightarrow p\bar{p} K^+ X$	
7.1 ± 8.6 2.9	684	² ABLIKIM	14L BES3	$e^+ e^- \rightarrow \psi(3770)$	
310 ± 30	684	³ ABLIKIM	14L BES3	$e^+ e^- \rightarrow \psi(3770)$	

¹ AAIJ 17AD reports $B(B^+ \rightarrow \psi(3770) K^+ \rightarrow p\bar{p} K^+)/B(B^+ \rightarrow J/\psi K^+ \rightarrow p\bar{p} K^+) < 0.09$ (0.10) at 90% (95%) CL.

² Solution I of two equivalent solutions in a fit with a resonance interfering with continuum.

³ Solution II of two equivalent solutions in a fit with a resonance interfering with continuum.

$\Gamma(p\bar{p}\pi^0)/\Gamma_{\text{total}}$ Γ_{76}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 0.4	90	1,2 ABLIKIM	140 BES3	$e^+e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
59 $^{+3}_{-2} \pm 5$		1,3 ABLIKIM	140 BES3	$e^+e^- \rightarrow \psi(3770)$
<12	90	4 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Calculated by the authors using $\sigma(e^+e^- \rightarrow \psi(3770) \rightarrow \text{hadrons}) = 6.36 \pm 0.08^{+0.41}_{-0.30}$ nb from BESSON 10.
² Solution I of two equivalent solutions in a fit with a resonance interfering with continuum.
³ Solution II of two equivalent solutions in a fit with a resonance interfering with continuum.
⁴ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{\text{obs}}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(p\bar{p}\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{77}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 5.8	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<16	90	2 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{\text{tot}}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.
² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{\text{obs}}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\Lambda\bar{\Lambda})/\Gamma_{\text{total}}$ Γ_{78}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.2	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<4	90	2 ABLIKIM	07F BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{\text{tot}}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.
² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{\text{obs}}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(p\bar{p}\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ Γ_{79}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<18.5	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<73	90	2 ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{\text{tot}}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.
² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{\text{obs}}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

 $\Gamma(\omega p\bar{p})/\Gamma_{\text{total}}$ Γ_{80}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 2.9	90	1 HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<30	90	2 ABLIKIM	07I BES2	$3.77 e^+e^-$

¹ Using $\sigma_{\text{tot}}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.
² Using $\sigma^{\text{obs}} = 7.15 \pm 0.27 \pm 0.27$ nb and neglecting interference.

$\Gamma(\Lambda\bar{\Lambda}\pi^0)/\Gamma_{\text{total}}$ Γ_{81}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 0.7	90	1 ABLIKIM	13Q BES3	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<12	90	2 ABLIKIM	07I BES2	$3.77 e^+ e^-$
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¹ Assuming that interference effects between resonance and continuum can be neglected.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

 $\Gamma(p\bar{p}2(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{82}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<2.6	90	1 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

 $\Gamma(\eta p\bar{p})/\Gamma_{\text{total}}$ Γ_{83}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 5.4	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<11	90	2 ABLIKIM	10D BES2	$e^+ e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6 \text{ nb}$ at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

 $\Gamma(\eta p\bar{p}\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{84}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<3.3	90	1 ABLIKIM	10D BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

 $\Gamma(\rho^0 p\bar{p})/\Gamma_{\text{total}}$ Γ_{85}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.7	90	1 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

 $\Gamma(p\bar{p}K^+K^-)/\Gamma_{\text{total}}$ Γ_{86}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 3.2	90	1 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<11	90	2 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6 \text{ nb}$ at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38 \text{ nb}$.

$\Gamma(\eta p\bar{p}K^+K^-)/\Gamma_{\text{total}}$	Γ_{87}/Γ			
<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<6.9	90	¹ ABLIKIM	10D BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\pi^0 p\bar{p}K^+K^-)/\Gamma_{\text{total}}$	Γ_{88}/Γ			
<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.2	90	¹ ABLIKIM	10D BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\phi p\bar{p})/\Gamma_{\text{total}}$	Γ_{89}/Γ			
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.3	90	¹ HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<9	90	² ABLIKIM	07B BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\Lambda\bar{\Lambda}\pi^+\pi^-)/\Gamma_{\text{total}}$	Γ_{90}/Γ			
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 2.5	90	¹ HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
< 4.7	90	² ABLIKIM	13Q BES3	$e^+e^- \rightarrow \psi(3770)$
<39	90	³ ABLIKIM	07F BES2	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

² Assuming that interference effects between resonance and continuum can be neglected.

³ Assuming that interference effects between resonance and continuum can be neglected and using $\sigma^{obs}(e^+e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.

$\Gamma(\Lambda\bar{p}K^+)/\Gamma_{\text{total}}$	Γ_{91}/Γ			
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<2.8	90	¹ HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

$\Gamma(\Lambda\bar{p}K^+\pi^+\pi^-)/\Gamma_{\text{total}}$	Γ_{92}/Γ			
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<6.3	90	¹ HUANG	06A CLEO	$e^+e^- \rightarrow \psi(3770)$

¹ Using $\sigma_{tot}(e^+e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

$\Gamma(\Lambda\bar{\Lambda}\eta)/\Gamma_{\text{total}}$	Γ_{93}/Γ			
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.9	90	¹ ABLIKIM	13Q BES3	$e^+e^- \rightarrow \psi(3770)$

¹ Assuming that interference effects between resonance and continuum can be neglected.

$\Gamma(\Sigma^+\bar{\Sigma}^-)/\Gamma_{\text{total}}$ Γ_{94}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.0	90	¹ ABLIKIM	13Q BES3	$e^+ e^- \rightarrow \psi(3770)$

1 Assuming that interference effects between resonance and continuum can be neglected.

 $\Gamma(\Sigma^0\bar{\Sigma}^0)/\Gamma_{\text{total}}$ Γ_{95}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<0.4	90	¹ ABLIKIM	13Q BES3	$e^+ e^- \rightarrow \psi(3770)$

1 Assuming that interference effects between resonance and continuum can be neglected.

 $\Gamma(\Xi^+\bar{\Xi}^-)/\Gamma_{\text{total}}$ Γ_{96}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.5	90	¹ ABLIKIM	13Q BES3	$e^+ e^- \rightarrow \psi(3770)$

1 Assuming that interference effects between resonance and continuum can be neglected.

 $\Gamma(\Xi^0\bar{\Xi}^0)/\Gamma_{\text{total}}$ Γ_{97}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.4	90	¹ ABLIKIM	13Q BES3	$e^+ e^- \rightarrow \psi(3770)$

1 Assuming that interference effects between resonance and continuum can be neglected.

RADIATIVE DECAYS $\Gamma(\gamma\chi_{c2})/\Gamma_{\text{total}}$ Γ_{98}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<0.64	90	¹ ABLIKIM	15J BES3	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<2.0	90	² BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
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<0.9	90	³ COAN	06A CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$
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1 This limit is equivalent to $(0.25 \pm 0.21 \pm 0.18) \times 10^{-3}$ branching fraction value.2 Uses $B(\psi(2S) \rightarrow \gamma\chi_{c2}) = 9.22 \pm 0.11 \pm 0.46\%$ from ATHAR 04, $\psi(2S)$ mass and width from PDG 04, and $\Gamma_{ee}(\psi(2S)) = 2.54 \pm 0.03 \pm 0.11$ keV from ADAM 06.3 Using $\Gamma_{ee}(\psi(2S)) = (2.54 \pm 0.03 \pm 0.11)$ keV from ADAM 06 and taking $\sigma(e^+ e^- \rightarrow D\bar{D})$ from HE 05 for $\sigma(e^+ e^- \rightarrow \psi(3770))$. $\Gamma(\gamma\chi_{c1})/\Gamma_{\text{total}}$ Γ_{99}/Γ

<u>VALUE (units 10^{-3})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2.49 ± 0.23 OUR AVERAGE				

1.98 $\pm 0.78 \pm 0.05$	202	¹ ABLIKIM	16B BES3	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
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2.48 $\pm 0.15 \pm 0.23$	0.6k	ABLIKIM	15J BES3	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$
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2.4 $\pm 0.8 \pm 0.2$		² ABLIKIM	14H BES3	$e^+ e^- \rightarrow \psi(3770) \rightarrow K_S^0 K^\pm \pi^\mp$
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2.9 $\pm 0.5 \pm 0.4$		³ BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}, \gamma\gamma J/\psi$
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$3.9 \pm 1.4 \pm 0.6$	54	⁴ BRIERE	06	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
$2.8 \pm 0.5 \pm 0.4$	53	⁵ COAN	06A	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$

¹ ABLIKIM 16B reports $(1.94 \pm 0.42 \pm 0.64) \times 10^{-3}$ from a measurement of $[\Gamma(\psi(3770) \rightarrow \gamma\chi_{c1})/\Gamma_{\text{total}}] / [\text{B}(\psi(2S) \rightarrow \gamma\chi_{c1}(1P))]$ assuming $\text{B}(\psi(2S) \rightarrow \gamma\chi_{c1}(1P)) = (9.55 \pm 0.31) \times 10^{-2}$, which we rescale to our best value $\text{B}(\psi(2S) \rightarrow \gamma\chi_{c1}(1P)) = (9.75 \pm 0.24) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

² ABLIKIM 14H reports $[\Gamma(\psi(3770) \rightarrow \gamma\chi_{c1})/\Gamma_{\text{total}}] \times [\text{B}(\chi_{c1}(1P) \rightarrow K_S^0 K^\pm \pi^\mp)] = (8.51 \pm 2.39 \pm 1.42) \times 10^{-6}$ which we divide by our best value $\text{B}(\chi_{c1}(1P) \rightarrow K_S^0 K^\pm \pi^\mp) = 0.00349 \pm 0.00029$. Our first error is their experiment's error and our second error is the systematic error from using our best value. We have calculated the best value of $\text{B}(\chi_{c1}(1P) \rightarrow K_S^0 K^\pm \pi^\mp)$ as 1/2 of $\text{B}(\chi_{c1}(1P) \rightarrow \bar{K}^0 K^+ \pi^- + \text{c.c.}) = (7.0 \pm 0.6) \times 10^{-3}$.

³ Averages the two measurements from COAN 06A and BRIERE 06.

⁴ Uses $\text{B}(\psi(2S) \rightarrow \gamma\chi_{c1}) = 9.07 \pm 0.11 \pm 0.54\%$ from ATHAR 04, $\psi(2S)$ mass and width from PDG 04, and $\Gamma_{ee}(\psi(2S)) = 2.54 \pm 0.03 \pm 0.11$ keV from ADAM 06.

⁵ Using $\Gamma_{ee}(\psi(2S)) = (2.54 \pm 0.03 \pm 0.11)$ keV from ADAM 06 and taking $\sigma(e^+ e^- \rightarrow D\bar{D})$ from HE 05 for $\sigma(e^+ e^- \rightarrow \psi(3770))$.

$\Gamma(\gamma\chi_{c1})/\Gamma(J/\psi\pi^+\pi^-)$			Γ_{99}/Γ_4	
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
1.49 ± 0.31 ± 0.26	53 ± 10	¹ COAN	06A CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$

¹ Using $\text{B}(\psi(3770) \rightarrow J/\psi\pi^+\pi^-) = (1.89 \pm 0.20 \pm 0.20) \times 10^{-3}$ from ADAM 06.

$\Gamma(\gamma\chi_{c0})/\Gamma_{\text{total}}$			Γ_{100}/Γ		
VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
6.9 ± 0.6 OUR AVERAGE					
6.7 ± 0.7 ± 0.1	2.2K		¹ ABLIKIM	16B BES3	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
7.3 ± 0.7 ± 0.6	274		BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
< 44	90		² COAN	06A CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$

¹ ABLIKIM 16B reports $(6.88 \pm 0.28 \pm 0.67) \times 10^{-3}$ from a measurement of $[\Gamma(\psi(3770) \rightarrow \gamma\chi_{c0})/\Gamma_{\text{total}}] / [\text{B}(\psi(2S) \rightarrow \gamma\chi_{c0}(1P))]$ assuming $\text{B}(\psi(2S) \rightarrow \gamma\chi_{c0}(1P)) = (9.99 \pm 0.27) \times 10^{-2}$, which we rescale to our best value $\text{B}(\psi(2S) \rightarrow \gamma\chi_{c0}(1P)) = (9.79 \pm 0.20) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

² Using $\Gamma_{ee}(\psi(2S)) = (2.54 \pm 0.03 \pm 0.11)$ keV from ADAM 06 and taking $\sigma(e^+ e^- \rightarrow D\bar{D})$ from HE 05 for $\sigma(e^+ e^- \rightarrow \psi(3770))$.

$\Gamma(\gamma\chi_{c0})/\Gamma(\gamma\chi_{c2})$			Γ_{100}/Γ_{98}	
VALUE	CL%	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
> 8	90	¹ BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770)$

¹ Not independent of other results in BRIERE 06.

$\Gamma(\gamma\chi_{c0})/\Gamma(\gamma\chi_{c1})$ Γ_{100}/Γ_{99}

VALUE	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

2.5 ± 0.6 ¹ BRIERE 06 CLEO $e^+ e^- \rightarrow \psi(3770)$

¹ Not independent of other results in BRIERE 06.

 $\Gamma(\gamma\eta_c)/\Gamma_{\text{total}}$ Γ_{101}/Γ

VALUE	CL%	DOCUMENT ID	TECN
$< 7 \times 10^{-4}$	90	¹ ABLIKIM	14H BES3

¹ ABLIKIM 14H reports $[\Gamma(\psi(3770) \rightarrow \gamma\eta_c)/\Gamma_{\text{total}}] \times [B(\eta_c(1S) \rightarrow K_S^0 K^\pm \pi^\mp)]$

$< 16 \times 10^{-6}$ which we divide by our best value $B(\eta_c(1S) \rightarrow K_S^0 K^\pm \pi^\mp) = 2.43 \times 10^{-2}$.

We have calculated the best value of $B(\eta_c(1S) \rightarrow K_S^0 K^\pm \pi^\mp)$ as 1/3 of $B(\eta_c(1S) \rightarrow K\bar{K}\pi) = 7.3 \times 10^{-2}$.

 $\Gamma(\gamma\eta_c(2S))/\Gamma_{\text{total}}$ Γ_{102}/Γ

VALUE	CL%	DOCUMENT ID	TECN
$< 9 \times 10^{-4}$	90	¹ ABLIKIM	14H BES3

¹ ABLIKIM 14H reports $[\Gamma(\psi(3770) \rightarrow \gamma\eta_c(2S))/\Gamma_{\text{total}}] \times [B(\eta_c(2S) \rightarrow K_S^0 K^\pm \pi^\mp)]$

$< 5.6 \times 10^{-6}$ which we divide by our best value $B(\eta_c(2S) \rightarrow K_S^0 K^\pm \pi^\mp) = 6 \times 10^{-3}$.

We have calculated the best value of $B(\eta_c(2S) \rightarrow K_S^0 K^\pm \pi^\mp)$ as 1/3 of $B(\eta_c(2S) \rightarrow K\bar{K}\pi) = 1.9 \times 10^{-2}$.

 $\Gamma(\gamma\eta')/\Gamma_{\text{total}}$ Γ_{103}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
< 1.8	90	¹ PEDLAR	09	CLE3 $\psi(2S) \rightarrow \gamma X$

¹ Assuming maximal destructive interference between $\psi(3770)$ and continuum sources.

 $\Gamma(\gamma\eta)/\Gamma_{\text{total}}$ Γ_{104}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
< 1.5	90	¹ PEDLAR	09	CLE3 $\psi(2S) \rightarrow \gamma X$

¹ Assuming maximal destructive interference between $\psi(3770)$ and continuum sources.

 $\Gamma(\gamma\pi^0)/\Gamma_{\text{total}}$ Γ_{105}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
< 2	90	PEDLAR	09	CLE3 $\psi(2S) \rightarrow \gamma X$

 $\psi(3770)$ REFERENCES

AAIJ	19M	JHEP 1907 035	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	17AD	PL B769 305	R. Aaij <i>et al.</i>	(LHCb Collab.)
SHAMOV	17	PL B769 187	A.G. Shamov, K.Yu. Todyshev	
ABLIKIM	16B	PL B753 103	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ABLIKIM	15J	PR D91 092009	M. Ablikim <i>et al.</i>	(BESIII Collab.)
DRUZHININ	15	PR D92 054024	V.P. Druzhinin	(NOVO)
ABLIKIM	14H	PR D89 112005	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ABLIKIM	14L	PL B735 101	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ABLIKIM	14O	PR D90 032007	M. Ablikim <i>et al.</i>	(BESIII Collab.)
BONVICINI	14	PR D89 072002	G. Bonvicini <i>et al.</i>	(CLEO Collab.)
ABLIKIM	13Q	PR D87 112011	Ablikim M. <i>et al.</i>	(BESIII Collab.)
ANASHIN	12A	PL B711 292	V.V. Anashin <i>et al.</i>	(KEDR Collab.)

ABLIKIM	10D	EPJ C66 11	M. Ablikim <i>et al.</i>	(BES II Collab.)
BESSON	10	PRL 104 159901 (errat.)	D. Besson <i>et al.</i>	(CLEO Collab.)
ABLIKIM	09C	EPJ C64 243	M. Ablikim <i>et al.</i>	(BES Collab.)
PEDLAR	09	PR D79 111101	T.K. Pedlar <i>et al.</i>	(CLEO Collab.)
ABLIKIM	08B	PL B659 74	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	08D	PL B660 315	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	08M	PL B670 179	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	08N	PL B670 184	M. Ablikim <i>et al.</i>	(BES Collab.)
AUBERT	08B	PR D77 011102	B. Aubert <i>et al.</i>	(BABAR Collab.)
BRODZICKA	08	PRL 100 092001	J. Brodzicka <i>et al.</i>	(BELLE Collab.)
PAKHLOVA	08	PR D77 011103	G. Pakhlova <i>et al.</i>	(BELLE Collab.)
ABLIKIM	07B	PL B650 111	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07E	PL B652 238	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07F	PL B656 30	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07I	EPJ C52 805	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07K	PR D76 122002	M. Ablikim <i>et al.</i>	(BES Collab.)
AUBERT	07BE	PR D76 111105	B. Aubert <i>et al.</i>	(BABAR Collab.)
DOBBS	07	PR D76 112001	S. Dobbs <i>et al.</i>	(CLEO Collab.)
ABLIKIM	06L	PRL 97 121801	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	06N	PL B641 145	M. Ablikim <i>et al.</i>	(BES Collab.)
ADAM	06	PRL 96 082004	N.E. Adam <i>et al.</i>	(CLEO Collab.)
ADAMS	06	PR D73 012002	G.S. Adams <i>et al.</i>	(CLEO Collab.)
BESSON	06	PRL 96 092002	D. Besson <i>et al.</i>	(CLEO Collab.)
Also		PRL 104 159901 (errat.)	D. Besson <i>et al.</i>	(CLEO Collab.)
BRIERE	06	PR D74 031106	R.A. Briere <i>et al.</i>	(CLEO Collab.)
COAN	06A	PRL 96 182002	T.E. Coan <i>et al.</i>	(CLEO Collab.)
CRONIN-HEN... HE	06	PR D74 012005	D. Cronin-Hennessy <i>et al.</i>	(CLEO Collab.)
HUANG	06A	PRL 96 032003	G.S. Huang <i>et al.</i>	(CLEO Collab.)
BAI	05	PL B605 63	J.Z. Bai <i>et al.</i>	(BES Collab.)
HE	05	PRL 95 121801	Q. He <i>et al.</i>	(CLEO Collab.)
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ABLIKIM	04F	PR D70 077101	M. Ablikim <i>et al.</i>	(BES Collab.)
ATHAR	04	PR D70 112002	S.B. Athar <i>et al.</i>	(CLEO Collab.)
CHISTOV	04	PRL 93 051803	R. Chistov <i>et al.</i>	(BELLE Collab.)
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BAI	02C	PRL 88 101802	J.Z. Bai <i>et al.</i>	(BES Collab.)
ADLER	88C	PRL 60 89	J. Adler <i>et al.</i>	(Mark III Collab.)
SCHINDLER	80	PR D21 2716	R.H. Schindler <i>et al.</i>	(Mark II Collab.)
BACINO	78	PRL 40 671	W.J. Bacino <i>et al.</i>	(SLAC, UCLA, UCI)
RAPIDIS	77	PRL 39 526	P.A. Rapidis <i>et al.</i>	(LGW Collab.)